

Applicant: Milton B. Maxwell, Jr.
Serial No.: 10/686,900
Filed: October 16, 2003
Group Art Unit: 3626
Attorney's Docket No.: N9461
Customer No.: 23456

COMPLETE LISTING OF CLAIMS

1. (Currently Amended) A medical information processing method, comprising:

providing a data processing system accessible to a plurality of users via a communications network, the data processing system including a computer program effective to execute the steps of

(a) receiving from a remote user location a request for medical information associated with a patient;

(b) automatically inputting into a data processing system obtaining medication specific data representing physical conditions associated with [[a]] the patient, the medication specific data comprising

names of one or more medications of a patient as recorded by a medical history of the patient, as determined from one or more a plurality of independent sources independent of the patient, the medications further comprising discontinued medications and current medications, and

names of substantially all physical conditions that are medically known to be treated by the medications, as determined from one or more predetermined information databases;

(b) (c) automatically identifying in the data processing system one or more probable disease/drug contra-indications based upon relationships between

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the one or more medications and the physical conditions, said contra-indications further identified as significant or non-significant;

(d) excluding from the medication specific data names of all physical conditions associated with said significant contra-indications;

(e) ~~(e)~~ generating names of ~~one or more non-excluded~~ all remaining physical conditions associated with the patient in the medication specific data by excluding from the medication specific data names of contra-indicated physical conditions;

~~wherein the step of excluding contra-indicated physical conditions is performed by comparing in the data processing system the names of all the medications taken by the patient to the names of those physical conditions for which one or more of the medications taken by the patient is contra-indicated; and~~

(f) identifying consequential information associated with the medications currently in use by the patient, said consequential information including significant and non-significant side effects that are probable, significant and non-significant drug-drug interactions that are probable; and therapeutic classes;

~~(d)~~ (g) outputting from the data processing system to a remote user location the names of the ~~non-excluded~~ remaining physical conditions associated with the patient in the medication specific data, the significant side effects, the significant drug-drug interactions, and the therapeutic classes.

2. (Canceled)

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3. (Canceled)

4. (Currently Amended) The method of claim [[2]] 1, further comprising the step of wherein step (g) further comprises:

(h) assigning the user an identification code; assigning the user a pass code; and upon entry of an identification code and pass code, comparing the entered identification code and the pass code to the assigned identification code and the assigned pass code to authorize access to the output physical conditions and consequential information ~~and item~~.

5. (Currently Amended) The method of claim 1, wherein, in step [[(a)]] (b) the medication specific data further comprises at least one of the items of data selected from the following group:

an administration dose of the medication;
a name of a health care provider that prescribed the medication;
an original date of a prescription for the medication;
a date of exhaustion of the prescription for the medication;
a set of instructions for administering the medication; and
compliance information for the medication.

6. (Currently Amended) The method of claim [[2]] 1, wherein:

in step [[(a)]] (b) the medication specific data includes information indicative of patient usage of prescribed medications; and

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in step ~~[(e)]~~ (f) the consequential information includes information regarding the indicated patient usage of prescribed medications.

7. (Currently Amended) The method of claim ~~[[2]]~~ 4, wherein:

step ~~[(g)]~~ (h) includes enabling a selected class of users to access less than all of the consequential information.

8- 14. (Canceled)

15. (Currently Amended) A method of generating a medical profile for a patient, comprising:

(a) storing in a data processing system patient medication information representing one or more medications associated with a patient, the patient medication information including medication distribution information obtained from a health care provider;

(b) comparing within the data processing system the patient medication information to a database to identify profile information, said profile information including severe, moderate and mild drug-drug interactions which are probable;
~~wherein~~

(c) executing computer readable instructions embodied within the data processing system to automatically exclude said mild drug-drug interactions ~~are automatically excluded~~ from the profile information;

~~[(e)]~~ (d) facilitating the display of the patient medication information and profile information including only said severe and moderate drug-drug

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interactions which are probable to a user by outputting said information from the data processing system to a user interface; and

[[~~(d)~~]] (e) controlling the display of said patient medication information and profile information by providing an identification code and pass code to the user that must be entered for the user to gain access to the user interface.

16. (Previously Presented) The method of claim 15, wherein step (a) further comprises entering into the data processing system patient medication information representing one or more medications associated with a patient, the information including medication distribution information obtained from a plurality of health care providers.

17. (Original) The method of claim 16, wherein in step (b) the profile information includes a severe side effect of the medication, a severe drug-drug interaction of the medication, and a therapeutic class of the medication.

18- 22. (Canceled)

23. (Currently Amended) A medical profile generating system, comprising:

a data processing system;

an input module embodied on a computer readable medium, wherein medication information comprising names of a plurality of medications prescribed for each of a plurality of patients is input into the data processing system;

a patient profile database within the data processing system including for each of the plurality of patients a patient profile, each patient profile including[[:]]

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medication specific data for the plurality of medications which have been prescribed for the patient;

consequential information generated by the data processing system from the medication specific data, the consequential information including identification of ~~any~~ drug-drug interactions of the prescribed medications, side effects of the medications, and disease drug contra indications having a severity classification of moderate and/or severe,

wherein ~~the~~ any identified drug-drug interactions, side effects and disease drug contra indications having a severity classification of less than moderate are automatically suppressed by the data processing system such that the consequential information does not include the suppressed interactions and side effects; and

a secured access to the patient profile database, requiring entry of patient, identification information and user password information in order for a user to gain access to the identified patient's profile.

24. (Canceled)

25. (Currently Amended) The ~~database~~ system of claim 23, wherein the consequential information further includes identification of multiple medications in a therapeutic class as a possible indication of duplicative medication.

26. (Canceled)

27. (Currently Amended) The ~~database~~ system of claim 23, wherein:

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the medication specific data includes information indicative of actual patient usage of the prescribed medications; and

the consequential information includes information regarding the indicated actual patient usage of prescribed medications.

28. (Currently Amended) The ~~database~~ system of claim 23, wherein the secured access permits a selected class of users to access less than all of the consequential information in the patient profile.

29. (Canceled)

30. (Previously presented) The method of claim 15, further comprising:

analyzing the patient medication information to extract at least one disease treated by medications described in the patient medication information; and

identifying disease/drug contra-indications according to the patient medication information and the at least one disease.

31. (Previously presented) The method of 23, wherein the consequential information further includes any disease/drug contra-indications as identified by comparing at least one disease, treated by one or more of the plurality of medications, to each of the plurality of medications.